

# [Retention and Drainage System For the Manufacturing of Paper]

## Abstract

A process for manufacturing a paper stock for use in making paper, paperboard and similar cellulosic products, by adding, at one or more different points of the wet end of the paper-making machine, a secondary retention and drainage agent containing liquid smectite, and a primary retention and drainage agent comprising a natural or synthetic polymer. The retention and drainage agents can be added in any order, thus improving the retention, drainage, formation and drying, without affecting the whiteness, and enhancing the physical values of the paper, paperboard, cardboard and other similar products. The smectite can be an enhanced, concentrated, liquid smectite that can avoid the need for an on-site preparation unit.